



SEQUENCE LISTING

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NAVAB, MOHAMAD

<120> ORALLY ADMINISTERED SMALL PEPTIDES SYNERGIZE STATIN ACTIVITY

<130> 407T-911270US

<140> US10/649,378  
<141> 2003-08-26

<150> US10/423,830  
<151> 2003-04-25

<150> US10/273,386  
<151> 2002-10-16

<150> US10/187,215  
<151> 2002-06-28

<150> US09/896,841  
<151> 2001-06-29

<150> US09/645,454  
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<151> 2003-08-11

<160> 464

<170> PatentIn version 3.3

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Ala Phe

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Ala Phe

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Ala Phe

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Ala Phe

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Ala Phe

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Ala Phe

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Phe Phe

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Phe Phe

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Phe Phe

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Phe Phe

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Ala Phe

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Phe Phe

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Ala Phe

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Phe Phe

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Ala Phe

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Phe Phe

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Phe Phe

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Phe Phe

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Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu Ala Phe  
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Ala Leu

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Phe Phe

<210> 44

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Phe Phe

<210> 45

<211> 18

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Ala Leu

<210> 46

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Ala Phe

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Glu Trp Phe Lys Ala Phe Tyr Glu Lys Val Ala Glu Lys Leu Lys Glu  
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Phe Phe

<210> 48

<211> 18

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Phe Phe

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Phe Phe

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Phe Phe

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Ala Trp

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Ala Trp

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Trp Trp

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Trp Trp

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Asp	Lys	Leu	Lys	Ala	Phe	Tyr	Asp	Lys	Val	Phe	Glu	Trp	Ala	Lys	Glu
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Ala Phe

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<400> 56

Asp Lys Trp Lys Ala Val Tyr Asp Lys Phe Ala Glu Ala Phe Lys Glu  
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Phe Leu

<210> 57

<211> 18

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Glu Lys Leu Lys Ala Phe Tyr Glu Lys Val Phe Glu Trp Ala Lys Glu  
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Ala Phe

<210> 58

<211> 18

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Glu Lys Trp Lys Ala Val Tyr Glu Lys Phe Ala Glu Ala Phe Lys Glu  
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Phe Leu

<210> 59

<211> 18

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Ala Tyr

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Glu Lys Trp Lys Ala Val Tyr Glu Lys Phe Ala Glu Ala Phe Lys Glu  
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Phe Leu

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Asp Trp Leu Lys Ala Phe Val Tyr Asp Lys Val Phe Lys Leu Lys Glu  
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Phe Phe

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Glu Trp Leu Lys Ala Phe Val Tyr Glu Lys Val Phe Lys Leu Lys Glu  
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Phe Phe

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<211> 18

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Asp Trp Leu Arg Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu  
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Ala Phe

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Ala Phe

<210> 65

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Asp Trp Leu Lys Ala Phe Tyr Asp Arg Val Ala Glu Lys Leu Lys Glu  
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Ala Phe

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Ala Phe

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<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 67

Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Arg Leu Lys Glu  
1 5 10 15

Ala Phe

<210> 68

<211> 18

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 68

Glu Trp Leu Lys Ala Phe Tyr Glu Lys Val Ala Glu Arg Leu Lys Glu  
1 5 10 15

Ala Phe

<210> 69  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 69

Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Arg Glu  
1 5 10 15

Ala Phe

<210> 70  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 70

Glu Trp Leu Lys Ala Phe Tyr Glu Lys Val Ala Glu Lys Leu Arg Glu  
1 5 10 15

Ala Phe

<210> 71

<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 71

Asp Trp Leu Lys Ala Phe Tyr Asp Arg Val Ala Glu Arg Leu Lys Glu  
1 5 10 15

Ala Phe

<210> 72  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 72

Glu Trp Leu Lys Ala Phe Tyr Glu Arg Val Ala Glu Arg Leu Lys Glu  
1 5 10 15

Ala Phe

<210> 73  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 73

Asp Trp Leu Arg Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Arg Glu  
1 5 10 15

Ala Phe

<210> 74  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 74

Glu Trp Leu Arg Ala Phe Tyr Glu Lys Val Ala Glu Lys Leu Arg Glu  
1 5 10 15

Ala Phe

<210> 75  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 75

Asp Trp Leu Arg Ala Phe Tyr Asp Arg Val Ala Glu Lys Leu Lys Glu  
1 5 10 15

Ala Phe

<210> 76  
<211> 18  
<212> PRT  
<213> Artificial

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 76

Glu Trp Leu Arg Ala Phe Tyr Glu Arg Val Ala Glu Lys Leu Lys Glu  
1 5 10 15

Ala Phe

<210> 77  
<211> 18  
<212> PRT  
<213> Artificial

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 77

Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Arg Leu Arg Glu  
1 5 10 15

Ala Phe

<210> 78  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 78

Glu Trp Leu Lys Ala Phe Tyr Glu Lys Val Ala Glu Arg Leu Arg Glu  
1 5 10 15

Ala Phe

<210> 79  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 79

Asp Trp Leu Arg Ala Phe Tyr Asp Lys Val Ala Glu Arg Leu Lys Glu  
1 5 10 15

Ala Phe

<210> 80  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 80

Glu Trp Leu Arg Ala Phe Tyr Glu Lys Val Ala Glu Arg Leu Lys Glu  
1 5 10 15

Ala Phe

<210> 81  
<211> 37  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 81

Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu  
1 5 10 15

Ala Phe Pro Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys  
20 25 30

Leu Lys Glu Ala Phe  
35

<210> 82  
<211> 37  
<212> PRT  
<213> Artificial

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 82

Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu

1                      5                      10                      15

Phe Phe Pro Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys  
                     20                      25                      30

Leu Lys Glu Phe Phe  
                     35

<210> 83  
 <211> 37  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 83

Asp Trp Phe Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu  
 1                      5                      10                      15

Ala Phe Pro Asp Trp Phe Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys  
                     20                      25                      30

Leu Lys Glu Ala Phe  
                     35

<210> 84  
 <211> 37  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 84

Asp Lys Leu Lys Ala Phe Tyr Asp Lys Val Phe Glu Trp Ala Lys Glu  
 1                      5                      10                      15

Ala Phe Pro Asp Lys Leu Lys Ala Phe Tyr Asp Lys Val Phe Glu Trp  
                     20                      25                      30

Leu Lys Glu Ala Phe  
                     35

<210> 85  
<211> 37  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 85

Asp Lys Trp Lys Ala Val Tyr Asp Lys Phe Ala Glu Ala Phe Lys Glu  
1 5 10 15

Phe Leu Pro Asp Lys Trp Lys Ala Val Tyr Asp Lys Phe Ala Glu Ala  
20 25 30

Phe Lys Glu Phe Leu  
35

<210> 86  
<211> 37  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 86

Asp Trp Phe Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Phe Lys Glu  
1 5 10 15

Ala Phe Pro Asp Trp Phe Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys  
20 25 30

Phe Lys Glu Ala Phe  
35

<210> 87  
<211> 37  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.



<400> 87

Asp Trp Leu Lys Ala Phe Val Tyr Asp Lys Val Phe Lys Leu Lys Glu  
1 5 10 15

Phe Phe Pro Asp Trp Leu Lys Ala Phe Val Tyr Asp Lys Val Phe Lys  
20 25 30

Leu Lys Glu Phe Phe  
35

<210> 88

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 88

Asp Trp Leu Lys Ala Phe Tyr Asp Lys Phe Ala Glu Lys Phe Lys Glu  
1 5 10 15

Phe Phe Pro Asp Trp Leu Lys Ala Phe Tyr Asp Lys Phe Ala Glu Lys  
20 25 30

Phe Lys Glu Phe Phe  
35

<210> 89

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 89

Glu Trp Phe Lys Ala Phe Tyr Glu Lys Val Ala Glu Lys Phe Lys Glu  
1 5 10 15

Ala Phe

<210> 90  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 90

Asp Trp Phe Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Phe  
1 5 10

<210> 91  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 91

Phe Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Phe Lys Glu  
1 5 10

<210> 92  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 92

Phe Lys Ala Phe Tyr Glu Lys Val Ala Glu Lys Phe Lys Glu  
1 5 10

<210> 93  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 93

Asn Met Ala Phe Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Phe Lys  
1 5 10 15

Glu

<210> 94

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 94

Asn Met Ala Phe Lys Ala Phe Tyr Glu Lys Val Ala Glu Lys Phe Lys  
1 5 10 15

Glu

<210> 95

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 95

Asn Met Ala Asp Trp Phe Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys  
1 5 10 15

Phe Lys Glu Ala Phe  
20

<210> 96

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 96

Asn Met Ala Glu Trp Phe Lys Ala Phe Tyr Glu Lys Val Ala Glu Lys  
1 5 10 15

Phe Lys Glu Ala Phe  
20

<210> 97  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 97

Asn Met Ala Ala Phe Tyr Asp Lys Val Ala Glu Lys Phe Lys Glu Ala  
1 5 10 15

Phe

<210> 98  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 98

Asn Met Ala Asp Trp Phe Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys  
1 5 10 15

Phe

<210> 99  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 99

Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Phe Glu Lys Phe Lys Glu  
1 5 10 15

Phe Phe Asn Met Ala Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Phe  
20 25 30

Glu Lys Phe Lys Glu Phe Phe  
35

<210> 100

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 100

Glu Trp Leu Lys Ala Phe Tyr Glu Lys Val Phe Glu Lys Phe Lys Glu  
1 5 10 15

Phe Phe Asn Met Ala Glu Trp Leu Lys Ala Phe Tyr Glu Lys Val Phe  
20 25 30

Glu Lys Phe Lys Glu Phe Phe  
35

<210> 101

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 101

Ala Phe Tyr Asp Lys Val Phe Glu Lys Phe Lys Glu Phe Phe Asn Met  
1 5 10 15

Ala Ala Phe Tyr Asp Lys Val Phe Glu Lys Phe Lys Glu Phe Phe  
20 25 30

<210> 102  
<211> 31  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 102

Ala Phe Tyr Glu Lys Val Phe Glu Lys Phe Lys Glu Phe Phe Asn Met  
1 5 10 15

Ala Ala Phe Tyr Glu Lys Val Phe Glu Lys Phe Lys Glu Phe Phe  
20 25 30

<210> 103  
<211> 31  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 103

Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Phe Glu Lys Phe Asn Met  
1 5 10 15

Ala Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Phe Glu Lys Phe  
20 25 30

<210> 104  
<211> 31  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 104

Glu Trp Leu Lys Ala Phe Tyr Glu Lys Val Phe Glu Lys Phe Asn Met  
1 5 10 15

Ala Glu Trp Leu Lys Ala Phe Tyr Glu Lys Val Phe Glu Lys Phe  
20 25 30

<210> 105  
<211> 31  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 105

Leu Lys Ala Phe Tyr Asp Lys Val Phe Glu Lys Phe Lys Glu Asn Met  
1 5 10 15

Ala Leu Lys Ala Phe Tyr Asp Lys Val Phe Glu Lys Phe Lys Glu  
20 25 30

<210> 106  
<211> 31  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 106

Leu Lys Ala Phe Tyr Glu Lys Val Phe Glu Lys Phe Lys Glu Asn Met  
1 5 10 15

Ala Leu Lys Ala Phe Tyr Glu Lys Val Phe Glu Lys Phe Lys Glu  
20 25 30

<210> 107  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 107

Asp Lys Trp Lys Ala Val Tyr Asp Lys Phe Ala Glu Ala Phe Lys Glu  
1 5 10 15

Phe Leu

<210> 108  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 108

Asp Lys Leu Lys Ala Phe Tyr Asp Lys Val Phe Glu Trp Ala Lys Glu  
1. 5 10 15

Ala Phe

<210> 109  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 109

Lys Arg Ser  
1

<210> 110  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 110

Lys Arg Thr  
1

<210> 111  
<211> 3  
<212> PRT  
<213> Artificial Sequence



<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 111

Trp Arg Ile

1

<210> 112  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 112

Trp Arg Leu

1

<210> 113  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 113

Phe Arg Ile

1

<210> 114  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 114

Phe Arg Leu

1

<210> 115

<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 115

Lys Glu Ser  
1

<210> 116  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 116

Lys Glu Thr  
1

<210> 117  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 117

Lys Asp Ser  
1

<210> 118  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 118

Lys Asp Thr

1

<210> 119  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 119

Lys Arg Ser  
1

<210> 120  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 120

Lys Arg Thr  
1

<210> 121  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 121

Leu Glu Ser  
1

<210> 122  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 122

Leu Glu Thr

1

<210> 123

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 123

Trp Arg Ser

1

<210> 124

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 124

Trp Asp Ser

1

<210> 125

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 125

Trp Glu Ser

1

<210> 126

<211> 3

<212> PRT

<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 126

Trp Arg Ser  
1

<210> 127  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 127

Lys Glu Leu  
1

<210> 128  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 128

Leu Arg Ser  
1

<210> 129  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 129

Leu Asp Ser  
1

<210> 130  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 130

Leu Glu Ser  
1

<210> 131  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 131

Leu Arg Ser  
1

<210> 132  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 132

Leu Arg Thr  
1

<210> 133  
<211> 3  
<212> PRT  
<213> Artificial

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 133

Glu Asp Tyr  
1

<210> 134  
<211> 3  
<212> PRT  
<213> Artificial

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 134

Lys Arg Ser  
1

<210> 135  
<211> 3  
<212> PRT  
<213> Artificial

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 135

Trp Arg Ile  
1

<210> 136  
<211> 3  
<212> PRT  
<213> Artificial

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 136

Trp Arg Leu  
1

<210> 137  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or

unprotected D or L form.

<400> 137

Phe Arg Ile

1

<210> 138

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 138

Phe Arg Leu

1

<210> 139

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 139

Trp Arg Phe

1

<210> 140

<211> 3

<212> PRT

<213> Artificial

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 140

Trp Arg Tyr

1

<210> 141

<211> 3

<212> PRT



<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 141

Trp Arg Phe

1

<210> 142

<211> 3

<212> PRT

<213> Artificial

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 142

Trp Arg Tyr

1

<210> 143

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<220>

<221> misc\_feature

<222> (1)..(1)

<223> Xaa is ornithine

<400> 143

Xaa Arg Ser

1

<210> 144

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 144

Lys Arg Ser

1

<210> 145

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 145

Lys Arg Thr

1

<210> 146

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 146

Leu Asp Thr

1

<210> 147

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 147

Leu Glu Thr

1

<210> 148

<211> 3

<212> PRT

<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 148

Leu Arg Thr  
1

<210> 149  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> Xaa is ornithine.

<400> 149

Xaa Arg Ser  
1

<210> 150  
<211> 3  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> Xaa is ornithine.

<400> 150

Xaa Asp Ser  
1

<210> 151  
<211> 3  
<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<220>

<221> misc\_feature

<222> (1)..(1)

<223> Xaa is ornithiine

<400> 151

Xaa Glu Ser

1

<210> 152

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<220>

<221> misc\_feature

<222> (1)..(1)

<223> Xaa is ornithine.

<400> 152

Lys Arg Ser

1

<210> 153

<211> 3

<212> PRT

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<400> 153

Lys Arg Thr

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<210> 154

<211> 3

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<400> 154

Lys Glu Ser  
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<400> 155

Lys Glu Thr  
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<210> 156  
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Lys Asp Ser  
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<210> 157  
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Lys Asp Thr  
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<210> 158  
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Lys Glu Leu  
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Lys Arg Thr  
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<210> 161  
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<400> 161

Lys Glu Ser  
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<210> 162

<211> 3

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<400> 162

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<210> 163

<211> 3

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Lys Asp Ser  
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<210> 164

<211> 3

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<210> 165

<211> 3

<212> PRT

<213> Artificial Sequence

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Lys Arg Ser

1

<210> 166  
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<400> 166

Lys Glu Leu

1

<210> 167  
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Lys Asp Ser

1

<210> 168  
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<212> PRT  
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<400> 168

Lys Asp Thr

1

<210> 169



<211> 3  
<212> PRT  
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Lys Arg Thr  
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Lys Glu Leu  
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<400> 171

Xaa Glu Ser  
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<220>

<221> misc\_feature

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<223> Xaa is ornithine.

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Xaa Asp Ser

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<210> 173

<211> 3

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<223> Xaa is ornithine.

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Xaa Asp Thr

1

<210> 174

<211> 3

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<223> Xaa is ornithine.

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Xaa Arg Thr

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<400> 175

Xaa Glu Thr  
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<210> 176  
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<210> 177  
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Trp Glu Ile  
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<210> 179  
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<210> 180  
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<210> 181  
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<210> 182  
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Phe Asp Leu  
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<210> 183  
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<400> 183

Phe Glu Leu  
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Trp Arg Phe  
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Trp Glu Phe  
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<210> 186  
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Trp Asp Phe  
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<210> 188  
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Trp Arg Tyr  
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<210> 189  
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unprotected D or L form.

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<210> 190

<211> 3

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<210> 191

<211> 3

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<210> 192

<211> 3

<212> PRT

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<210> 193

<211> 3

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<400> 193

Phe Arg Xaa

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<210> 194

<211> 3

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<220>

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<222> (3)..(3)

<223> Xaa is norleucine.

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Phe Glu Xaa

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<210> 195

<211> 3

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<223> Xaa is norleucine.

<400> 195



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Glu His Tyr  
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<210> 197  
<211> 3  
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Leu His Ser  
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Leu His Thr  
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<210> 199  
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unprotected D or L form.

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<210> 200

<211> 3

<212> PRT

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<210> 201

<211> 3

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Lys His Leu  
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<210> 202

<211> 3

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Lys His Ser  
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<210> 203

<211> 3

<212> PRT

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Lys His Thr

1

<210> 204

<211> 3

<212> PRT

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Lys His Leu

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<210> 205

<211> 3

<212> PRT

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Xaa His Ser

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<210> 206

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<400> 206

Xaa His Thr  
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Phe His Ile  
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Phe His Leu  
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<210> 209  
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<220>  
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<223> Xaa is norleucine.

<400> 209

Phe His Xaa

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<210> 210

<211> 3

<212> PRT

<213> Artificial Sequence

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Phe Lys Leu

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<210> 211

<211> 3

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<220>

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Trp His Ile

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<210> 212

<211> 3

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Trp His Leu

1

<210> 213

<211> 3

<212> PRT

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Trp His Phe

1

<210> 214

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

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Trp His Tyr

1

<210> 215

<211> 3

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<220>

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Phe Lys Leu

1

<210> 216

<211> 3

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Lys His Ser

1

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Lys His Thr  
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Lys His Leu  
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Leu His Ser  
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<210> 220  
<211> 3  
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Leu His Thr

1

<210> 221

<211> 3

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<220>

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Lys His Ser

1

<210> 222

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

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<400> 222

Lys His Thr

1

<210> 223

<211> 3

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<220>

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Lys His Leu

1

<210> 224

<211> 3

<212> PRT

<213> Artificial Sequence

<220>



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1

<210> 225

<211> 3

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<220>

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<210> 226

<211> 3

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<400> 226

Xaa His Ser

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<210> 227

<211> 3

<212> PRT

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<210> 228  
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<220>  
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<400> 228

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<210> 229  
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<220>  
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<400> 229

Phe His Xaa  
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<210> 230  
<211> 3  
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Trp His Ser  
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<210> 231

<211> 3  
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Trp His Leu  
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<210> 233  
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Trp His Phe  
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<210> 234  
<211> 3  
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<400> 234

Trp His Tyr

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<400> 236

Lys His Ser  
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<210> 237  
<211> 3  
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<400> 237

Lys His Thr  
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<210> 238  
<211> 4  
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<220>  
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<400> 238

Lys Arg Asp Ser

1

<210> 239

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

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<400> 239

Lys Arg Asp Thr

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<210> 240

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

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<400> 240

Trp Arg Asp Ile

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<210> 241

<211> 4

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<210> 242

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<400> 246

Phe Arg Glu Ile

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<210> 247  
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Phe Asp Arg Ile

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<210> 248  
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<400> 251.

Phe Glu Arg Leu  
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<210> 252  
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<220>  
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<220>  
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<223> Xaa is norleucine.

<400> 252

Phe Asp Arg Xaa  
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<210> 253  
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<220>  
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<400> 253

Phe Glu Arg Xaa  
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<210> 254  
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<220>  
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<400> 254

Lys Glu Arg Ser  
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<210> 255  
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<212> PRT  
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<220>  
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<400> 255

Lys Glu Arg Thr  
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<210> 256

<211> 4

<212> PRT

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<220>

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<400> 256

Lys Asp Arg Ser  
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<210> 257

<211> 4

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<213> Artificial Sequence

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Lys Asp Arg Thr  
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<210> 258

<211> 4

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Lys Arg Glu Ser  
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<210> 259

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Lys Arg Glu Thr

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Leu Glu Arg Ser

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Leu Glu Arg Thr

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<400> 262

Trp Arg Asp Ser

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<210> 263

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Trp Arg Glu Ser  
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<210> 266  
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Lys Glu Arg Leu

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Leu Asp Arg Ser  
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<210> 271

<211> 4

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<210> 272

<211> 4

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Glu Asp Arg Tyr

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<210> 273

<211> 4

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<213> Artificial Sequence

<220>

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1

<210> 274

<211> 4

<212> PRT

<213> Artificial Sequence

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Trp Arg Asp Leu  
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<400> 276

Phe Arg Asp Ile  
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<210> 277  
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<212> PRT  
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<220>  
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<400> 277

Phe Arg Asp Leu  
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<210> 278  
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<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 278

Trp Arg Asp Phe  
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<210> 279  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 279

Trp Arg Asp Tyr  
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<220>  
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<400> 280

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<212> PRT  
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<220>  
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<400> 281



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<220>  
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<223> Xaa is ornithine.

<400> 282

Xaa Arg Glu Ser

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<210> 283  
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<400> 283

Lys Arg Asp Ser

1

<210> 284  
<211> 4  
<212> PRT  
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<400> 284

Lys Arg Asp Thr

1

<210> 285

<211> 4  
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<400> 285

Leu Asp Arg Thr  
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<210> 286  
<211> 4  
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<400> 286

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<210> 287  
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<212> PRT  
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<400> 287

Leu Arg Glu Thr  
1

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<220>  
<221> misc\_feature

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<400> 288

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<210> 289  
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<220>  
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<400> 289

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<400> 290

Xaa Glu Arg Ser  
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<400> 291

Xaa Arg Glu Ser  
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1

<210> 293  
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Lys Arg Asp Thr  
1

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<400> 294

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1

<210> 295

<211> 4

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Lys Glu Arg Thr

1

<210> 296

<211> 4

<212> PRT

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<400> 296

Lys Asp Arg Ser

1

<210> 297

<211> 4

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1

<210> 298

<211> 4

<212> PRT

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Lys Arg Glu Ser

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<210> 299

<211> 4

<212> PRT

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<210> 300

<211> 4

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Lys Glu Arg Leu

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<210> 301

<211> 4

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Lys Arg Glu Leu

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<210> 302

<211> 4

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Lys Glu Arg Ser  
1

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<400> 304

Lys Glu Arg Thr  
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<400> 305

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<400> 308

Lys Arg Glu Thr  
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<210> 309  
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<400> 309

Lys Glu Arg Leu

1

<210> 310

<211> 4

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<210> 311

<211> 4

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1

<210> 312

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1

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1

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1

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<220>  
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<223> Xaa is ornithine.

<400> 319

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<223> Xaa is ornithine

<400> 320

Xaa Glu Arg Ser

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<210> 321

<211> 4

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<223> Xaa is ornithine.

<400> 321

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<210> 322

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<221> misc\_feature

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<223> Xaa is ornithine.

<400> 322

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1

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<220>  
<221> misc\_feature  
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<400> 323

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<400> 324

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<400> 325

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<210> 326

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<400> 331

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<210> 332  
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<210> 333

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<210> 334

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<213> Artificial Sequence

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<210> 335

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<210> 336

<211> 4

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<400> 336

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<400> 337

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<400> 338

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<400> 339

Trp Arg Asp Phe  
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<400> 340

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<400> 341

Trp Glu Arg Phe  
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<210> 343  
<211> 4  
<212> PRT  
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<400> 343

Trp Arg Glu Tyr  
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<400> 344

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<400> 346

Trp Asp Arg Thr  
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<210> 347  
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unprotected D or L form.

<400> 347

Trp Arg Glu Thr  
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<210> 348

<211> 4

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<400> 348

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<210> 349

<211> 4

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<221> misc\_feature

<222> (4)..(4)

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<400> 349

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<210> 350

<211> 4

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<220>

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<220>

<221> misc\_feature

<222> (4)..(4)

<223> Xaa is norleucine.

<400> 350

Phe Arg Glu Xaa

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<210> 351

<211> 4

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<213> Artificial Sequence

<220>

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<210> 352

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

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<210> 353

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

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<400> 353

Phe Lys Glu Leu

1

<210> 354

<211> 4

<212> PRT  
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<210> 446  
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Ala Phe

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unprotected D or L form.

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Ala Phe

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Ala Phe

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Ala Phe

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<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

<400> 454

Asp	Trp	Phe	Lys	Ala	Phe	Tyr	Asp	Lys	Val	Ala	Glu	Lys	Phe	Lys	Glu
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Ala Phe

<210> 455

<211> 18

<212> PRT

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<223> Chemically synthesized peptide. Amino acids can be protected or unprotected D or L form.

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Asp	Trp	Phe	Lys	Ala	Phe	Tyr	Asp	Lys	Val	Ala	Glu	Lys	Phe	Lys	Glu
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Ala Phe

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<400> 456

Asp	Trp	Phe	Lys	Ala	Phe	Tyr	Asp	Lys	Val	Ala	Glu	Lys	Phe	Lys	Glu
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Ala Phe

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<213> Artificial Sequence

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<400> 457

Asp Trp Phe Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Phe Lys Glu  
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Ala Phe

<210> 458

<211> 18

<212> PRT

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Ala Phe

<210> 459

<211> 18

<212> PRT

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Ala Phe

<210> 460

<211> 18

<212> PRT

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Ala Phe

<210> 461  
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Ala Phe

<210> 462  
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Ala Phe

<210> 463  
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Ala Phe

<210> 464

<211> 18

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<400> 464

Asp Trp Phe Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Phe Lys Glu  
1 5 10 15

Ala Phe